BRUHAT BENGALURU MAHANAGARA PALIKE

PRE-MEASUREMENT

MEASUREMENT SHEET

Name of work: Improvements to Roads and Drains at Srinidhi Layout and Surrounding areas in Ward No. 15 (Kuvempunagara).

Estimated Cost : Rs. 20.00 Lakhs

Head of Account : P3726 Zonal Public Works - POW Works

Job Code: 015-23-000004

Name of Agency: Sri. Suresh. U, No. 12, 4th Cross, Sunrise Colony, Cholanayakanahalli, RT nagar, Bengaluru - 560032.

Work order No: BBMP/EE/BTP/WO/131/2022-23 D: 02-03-2023.

	Measurements Recarded on :	15-03-2023					
Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
1	Earth work Excavation by manual means for drains,canals, waste weir, draft, approach channels, key trenches, foundation of bridges and such simillar works in all kinds of soils , as per drawing and technical specifications, including setting out, shoring, strutting, barricading, caution lights, removal of stumps and other deleterious matter, excavated surface leveled and sides neatly dressed disposing off the excavated stuff or sorting & stacking the selected stuff for reuse in a radius of 50 m and lift upto 1.5 m including cost of						
	New Drain						
	Srinidhi Layout 3rd D Cross	1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	5.40	1.00	1.00	5.40	
	Main Road						
	8th C Main to 8th D Main	1	8.60	1.00	1.00	8.60	
	8th B Main to 8th C Main	1	15.00	1.00	1.00	15.00	
		1	12.00	1.00	1.00	12.00	
	D Mandala 1st Cross	1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	15.00	1.00	1.00	15.00	
		1	1.20	1.00	1.00	1.20	
	Culverts						
	Srinidhi Layout 3rd D Cross Enterance	1	8.00	1.80	1.00	14.40	
	Vyshnavi Layout Last Cross Road	1	6.70	1.30	1.00	8.71	
		Total Qty =				**215.31**	
	Total	**Qty Ltd to Tende Qty =**				**216.00**	Cum

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Sl No	Description of work	Mesurement No.	L	B	D	Qty.	Unit
	Measurements Recarded on :	21-03-2023					
2	Providing and laying in position Plain Cement Concrete Mix 1:3:6 (M10) for levelling course for all works in foundation. Using 40 mm nominal size graded crushed coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications.						
	New Drain						
	Srinidhi Layout 3rd D Cross	1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	5.40	1.00	0.15	0.81	
	Main Road						
	8th C Main to 8th D Main	1	8.60	1.00	0.15	1.29	
	8th B Main to 8th C Main						
		1	15.00	1.00	0.15	2.25	
		1	12.00	1.00	0.15	1.80	
	D Mandala 1st Cross						
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	15.00	1.00	0.15	2.25	
		1	1.20	1.00	0.15	0.18	
	Culverts						
	Srinidhi Layout 3rd D Cross Enterance	1	8.00	1.80	0.15	2.16	
	Vyshnavi Layout Last Cross Road	1	6.70	1.30	0.15	1.31	
		Total Qty =				**32.30**	
	Total	**Qty Ltd to Tende Qty =**				**32.22**	Cum

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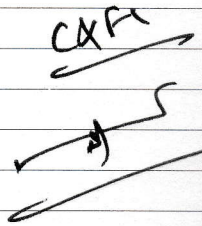
Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
	Measurements Recarded on :	12-05-2023					
3	Providing and laying in position Reinforced cement concrete for all Sub structures of building, Irrigation works, Sub structure works of bridges, Drain works & other parallel works from 0.50m to 3.50 m height. The granite/trap/basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed with super plasticisers, laid in layers, well compacted using needle vibrators, providing weep holes wherever necesary, including all lead & lifts, cost of all materials of quality, confirming to the requirements of relevant IS codes, labour, Usage charges of machinery, curing and all other appurtenances required to complete the work as per technical specifications. M20 (The cost of steel reinforcement & formwork to be paid separately)						
	New Drain						
	Raft						
	Srinidhi Layout 3rd D Cross	1	15.00	0.90	0.15	2.02	
		1	15.00	0.90	0.15	2.02	
		1	15.00	0.90	0.15	2.02	
		1	15.00	0.90	0.15	2.02	
		1	15.00	0.90	0.15	2.02	
		1	15.00	0.90	0.15	2.02	
		1	15.00	0.90	0.15	2.02	
		1	5.40	0.90	0.15	0.72	
	Main Road						
	8th C Main to 8th D Main	1	8.60	0.90	0.15	1.16	
	8th B Main to 8th C Main						
		1	15.00	0.90	0.15	2.02	
		1	12.00	0.90	0.15	1.62	
	D Mandala 1st Cross						
		1	15.00	0.90	0.15	2.02	
		1	15.00	0.90	0.15	2.02	
		1	15.00	0.90	0.15	2.02	
		1	1.20	0.90	0.15	0.16	
	Side Walls						
	Srinidhi Layout 3rd D Cross	2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.60	2.70	
		2	5.40	0.15	0.60	0.97	
	Main Road						
	8th C Main to 8th D Main	2	8.60	0.15	0.60	1.55	
	8th B Main to 8th C Main						
		2	15.00	0.15	0.60	2.70	
		2	12.00	0.15	0.60	2.16	
	D Mandala 1st Cross						
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.60	2.70	
		2	15.00	0.15	0.55	2.48	
		2	1.20	0.15	0.55	0.20	



Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
	Culvert						
	Raft						
	Srinidhi Layout 3rd D Cross Enterance	1	8.00	1.80	0.20	2.88	
	Vyshnavi Layout Last Cross Road	1	6.70	1.20	0.20	1.61	
	Side Walls						
	Srinidhi Layout 3rd D Cross Enterance	2	8.00	0.30	0.60	2.88	
	Vyshnavi Layout Last Cross Road	2	6.70	0.30	0.60	2.41	
	Total	**Total Qty =**				**70.01**	
		Qty Ltd to Tende Qty =				**69.81**	Cum

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Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
	Measurements Recarded on :	12-05-2023					
4	Supplying, Fitting and Placing un-coated TMT bar Reinforcement in sub-structure complete as per Drawing and Technical Specifications.						
	For Drain						
	U Shape Drains	**No**	**L**	**Mtrs**	**Kg/m**	**Kgs**	
	Singapura Paradise 3rd Main						
	Srinidhi Layout 3rd D Cross						
	10 mm dia	1003	2.10	2106.30	0.62	1305.91	
	8 mm dia	15	110.40	1656.00	0.39	645.84	
	Total					**1951.75**	
	8th C Main to 8th D Main						
	10 mm dia	72	2.10	151.20	0.62	93.74	
	8 mm dia	16	8.60	137.60	0.39	53.66	
	Total					**147.41**	
	8th B Main to 8th C Main						
	10 mm dia	226	2.10	474.60	0.62	294.25	
	8 mm dia	16	27.00	432.00	0.39	168.48	
	Total					**462.73**	
	D Mandala 1st Cross						
	10 mm dia	386	2.10	810.60	0.62	502.57	
	8 mm dia	16	46.20	739.20	0.39	288.29	
	Total					**790.86**	
	RCC Drain Total					**3352.75**	
	Culverts						
	Srinidhi Layout 3rd D Cross Enterance						
	16 mm	89	2.20	195.80	1.58	309.36	
	12 mm	34	8.00	272.00	0.89	242.08	
	Total					**551.44**	
	Vyshnavi Layout last Cross Road						
	16 mm	75	2.20	165.00	1.58	260.70	
	12 mm	34	6.70	227.80	0.89	202.74	
	Total					**463.44**	
	Culverts Total					**1014.89**	
	RCC Drain + Culverts Total					**4367.63**	Kgs
		Total Qty =				**4.37**	Tonne
	Total	**Qty Ltd to Tende Qty =**				**4.34**	Tonne

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Sl No	Description of work	Mesurement				Qty.	Unit
		No.	L	B	D		
	Measurements Recarded on :	12-05-2023					
5	Providing and laying in position plain cement concrete for levelling course for all works in foundation. The granite / trap / basalt crushed graded coarse aggregates and fine aggregates as per relevant IS Codes machine mixed, laid in layers not exceeding 150 mm thickness, well compacted using plate vibrators, including all lead & lifts, cost of all materials of quality, labour, Usage charges of machineries, curing, and all the other appurtenances required to complete the work as per technical specifications. (The cost of steel reinforcement & formwork shall be paid separately **Mix 1:3:6 (M10) Using 20 mm nominal size graded crushed coarse aggregate**						
	Culvert Ramp						
	Srinidhi Layout 3rd D Cross	2	8.00	1.20	0.15	2.88	
	Vyshnavi Layout	2	6.70	1.20	0.15	2.41	
	Ramp						
	Srinidhi Layout 3rd D Cross	2	2.30	0.30	0.10	0.14	
		2	2.60	0.30	0.10	0.16	
		2	9.50	0.30	0.10	0.57	
		2	5.60	0.30	0.10	0.34	
		2	5.60	0.30	0.10	0.34	
		2	2.30	0.30	0.10	0.14	
		2	2.50	0.30	0.10	0.15	
		2	5.40	0.30	0.10	0.32	
		Total Qty =				**7.44**	
		Qty Ltd to Tende Qty =				**7.20**	Cum

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